

FLAME-RETARDANT RESIN COMPOSITION

Patent Number: JP62101644
Publication date: 1987-05-12
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Requested Patent: ☐ JP62101644
Application Number: JP19850240532 19851029
Priority Number(s):
IPC Classification: C08L23/02; C08K13/06; C08L23/26
EC Classification:
Equivalents:

Abstract

PURPOSE: To ensure the prevention of dripping during combustion and to prevent harmful gases to be emitted on fire, by blending a specified olefin resin with a hydrated metal oxide having a coupling agent-treated surface, a red phosphorus flame retarder or an org. phosphine derivative and an inorg. filler in a specified ratio.

CONSTITUTION: This flame-retardant resin compsn. is formed by blending 100pts. wt. olefin resin (A), obtd. by mixing 5-95wt% polyolefin resin with 5-95wt% at least one silane-grafted polymer obtd. by grafting a silane onto a polyolefin resin, with 50-200pts.wt. hydrated metal oxide (B) having a surface treated with at least one titanate or silane coupling agent, 2-50pts.wt. red phosphorus flame retarder or org. phosphine derivative or mixture of two or more of them (C) and 1-20pts.wt. at least one inorg. filler (D).

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